

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP 03/11636

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01J39/16 B01J47/00 B01J39/20 G01N30/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J G01N B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE WPI Section Ch, Week 199408 Derwent Publications Ltd., London, GB; Class A14, AN 1994-062605 XP002267618 & JP 06 018505 A (SHOWA DENKO KK) 25 January 1994 (1994-01-25) abstract</p>	1-15
A	<p>DATABASE WPI Section Ch, Week 199320 Derwent Publications Ltd., London, GB; Class A18, AN 1993-163733 XP002267619 & JP 05 096184 A (SHOWA DENKO KK) 20 April 1993 (1993-04-20) cited in the application abstract</p>	1-15

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

30 January 2004

Date of mailing of the international search report

12/02/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 4 913 935 A (GWO CHUNG LIN) 3 April 1990 (1990-04-03) column 3, line 31 - column 5, line 45; claims 1,16	1-15
A	EP 0 448 302 A (MINNESOTA MINING AND MANUFACTURING COMPANY) 25 September 1991 (1991-09-25) page 6, line 17 page 6, line 34 - line 37 page 10, line 25 - page 11, line 4 page 31, line 34 - line 42	1-15
A	GB 1 446 783 A (GAF CORPORATION) 18 August 1976 (1976-08-18) page 3, line 11 page 2, line 2 - line 3 page 2, line 30 - line 31 page 4, line 1 - line 34	1-15

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JP 5096184	A	20-04-1993	NONE	
US 4913935	A	03-04-1990	NONE	
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			DE 69112460 T2	28-03-1996
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